ALTO

MUSIC, PASSION, DESIGN

OWNER'S MANUAL

ELVIS MKII SPEAKER ENCLOSURES

ACTIVE MODELS

www.altoproaudio.com

Version 1.0 DEC 2008

English

IMPORTANT SAFETY INSTRUCTION

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK PLEASE DO NOT REMOVE THE COVER OR THE BACK PANEL OF THIS EQUIPMENT. THERE ARE NO PARTS NEEDED BY USER INSIDE THE EQUIPMENT. FOR SERVICE, PLEASE CONTACT QUALIFIED SERVICE CENTERS.

This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

⏚ Protective Ground Terminal
AC mains (Alternating Current)

ϟ Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.

1. Read this Manual carefully before operation.
2. Keep this Manual in a safe place.
3. Be aware of all warnings reported with this symbol.
4. Keep this Equipment away from water and moisture.
5. Clean it only with dry cloth. Do not use solvent or other chemicals.
6. Do not damp or cover any cooling opening. Install the equipment only in accordance with the Manufacturer's instructions.
7. Power Cords are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.
8. Unplug this equipment when unused for long periods of time or during a storm.
9. Refer all service to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.
10. To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

WARNING

To reduce the risk of electric shock and fire, do not expose this equipment to moisture or rain.

Dispose of this product should not be placed in municipal waste and should be separate collection.

11. Move this Equipment only with a cart, stand, tripod, or bracket, specified by the manufacturer, or sold with the Equipment. When a cart is used, use caution when moving the cart / equipment combination to avoid possible injury from tip-over.

12. Permanent hearing loss may be caused by exposure to \ extremely high noise levels. The US. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible exposure to noise level.
These are shown in the following chart:

HOURS X DAY	SPL	EXAMPLE
8	90	Small gig
6	92	train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classic music concert
1,5	102	
1	105	
0,5	110	
0,25 or less	115	Rock concert

According to OSHA, an exposure to high SPL in excess of these limits may result in the loss of heat. To avoid the potential damage of heat, it is recommended that Personnel exposed to equipment capable of generating high SPL use hearing protection while such equipment is under operation.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

The mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

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1. INTRODUCTION

Thank you for your purchasing one of our ELVIS MKII speaker enclosures. It is just one of the many Alto products that a talented, multinational Team of Audio Engineers and Musicians have developed with their great passion for music. We design all our transducers and cabinets in Emilia-Romagna of Italy, a lowland famous for music and fast cars. In fact, Lamborghini, Maserati and Ferrari are made just a few miles away from our design centers. The same area has a long tradition in designing and manufacturing some of the world's best professional transducers. Your ELVIS MKII speaker cabinet is capable of very high sound pressure level and it has been created to give you a performance that is better than any loudspeaker in this range. They are flexible in their active configurations and can be used with single and multiple subwoofers. The active models even include a microphone preamplifier and a three-band graphic equalizer.

Enjoy your ELVIS MKII speaker and make sure to read this Manual carefully before operation!

2. QUICK START - ACTIVE SPEAKER CABINETS

Active, Full-range, two speakers. It is similar to the passive example but you do not need a power amplifier in between the mixer and the 2 ELVIS MKII speakers Make all initial connections with all the equipments powered off, and ensure that all the main volume controls are turned down completely.

1). Connect one side of the signal cable at your mixer into the Main Output Left/ Right (with 1/4"Jack or XLR) and the other side of the cable in to the Line Input (COMBO) of your ELVIS MKII active speaker cabinet (with1/4"Jack or XLR).

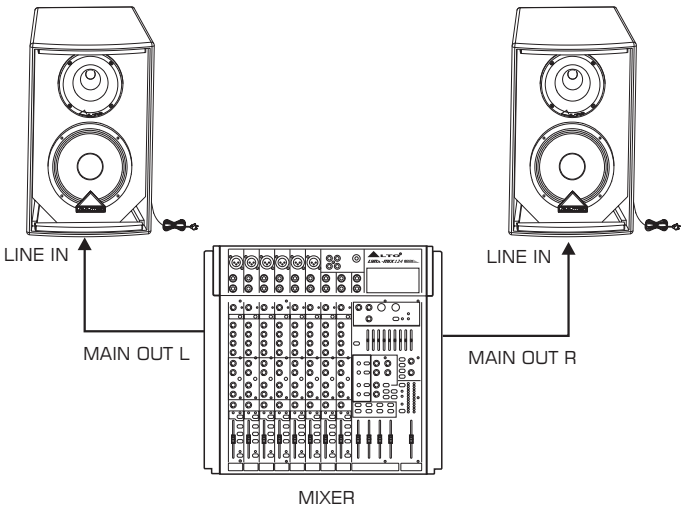
2). Connect the power cord to mains.

3). Turn ON your mixer first, then the ELVIS MKII cabinets.

4). Turn up the volume control of the ELVIS MKII cabinets.

5). Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to reach the desired output level.

6). After use, turn off your active speaker cabinets first, then the mixer.

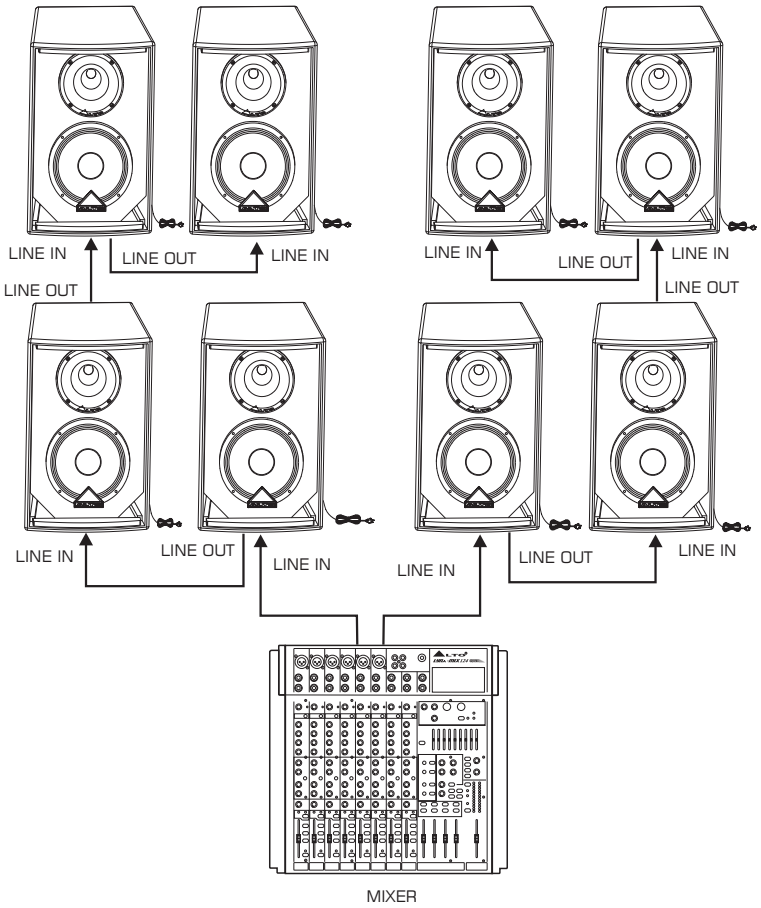


2. QUICK START - ACTIVE SPEAKER CABINETS

Active, Full-range, multiple speakers. This solution is particularly flexible when you have a large stage and for fixed installations where you want to send the same signal to different zones like in a Bar, Pub, Restaurant, Church, etc. Each ELVIS MKII cabinet has its own volume control so you can adjust different volumes in different zones.

1). Follow the above steps connecting the MAIN OUTPUTS of the mixer to the LINE INPUTS of 2 Elvis MKII active cabinets.

2). Connect the LINE OUT socket of the first ELVIS MKII cabinet to the LINE IN socket of the subsequent piece. You can connect as many speakers as you wish in this way.



2. QUICK START - ACTIVE SPEAKER CABINETS

Active, two subwoofers & two satellite speakers. In this example, the mixer is connected to the ELVIS MKII subwoofers and then a 125 Hz covered line signal is sent to the respective satellites. In this way, the high energetic content of the low frequencies is limited to the subwoofer and the satellite' s woofer act like a mid -woofer. As a consequence the satellites built-in amplifier is not stressed by low frequency content.

1). Connect one side of signal cable at your mixer into Main Output Left/Right (with1/4" Jack or XLR) and the other side of the cable into the Left/Mono Input (COMBO) of the ELVIS MKII active subwoofers; with the second signal cable connect the Left/Mono Line Output of the subwoofer (Stereo/Mono- Jack or XLR) to the Line input (COMBO) of the active satellite (with Stereo - Jack or XLR).

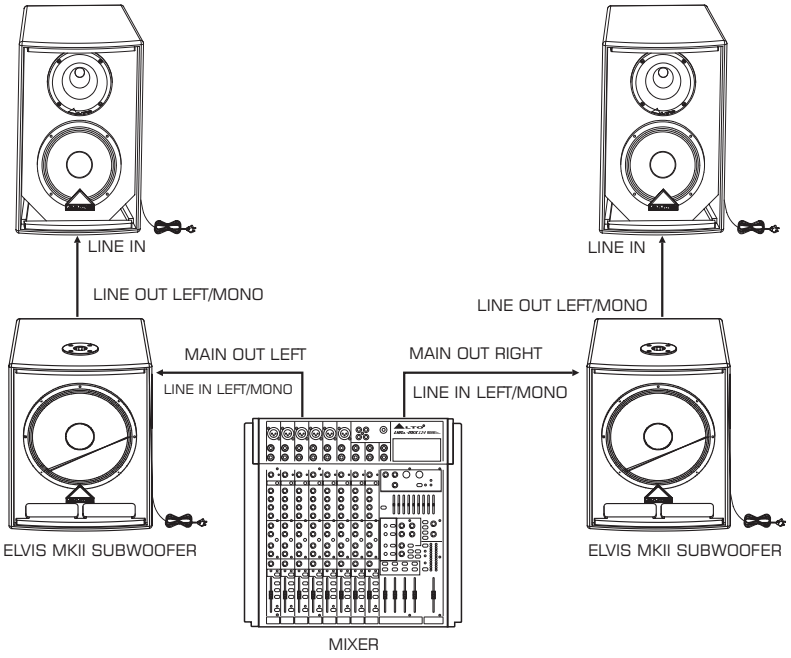
2). Connect the power cord to mains.

3). Turn on your mixer first, then the active speaker cabinets.

4). Turn up the volume control of the active speaker cabinets.

5). Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to manipulate the output level.

6). After use, turn off your active speaker cabinets first, then the mixer.



2. QUICK START - ACTIVE SPEAKER CABINETS

Active, one subwoofer and two satellite speakers.
This is a very popular combination, especially in small size clubs where there is no need for two subwoofers.

1). Connect one side of signal cable at your mixer into Main Output Left (with 1/4"Jack or XLR) and the other side of the cable into the Left Input of the ELVIS active subwoofer. Repeat for the RIGHT channel. With the second signal cable connect the Left Line Output of the subwoofer (Stereo/Mono -Jack or XLR) to the Line input (COMBO) of the active satellite (with Stereo -Jack or XLR). Repeat for the RIGHT channel

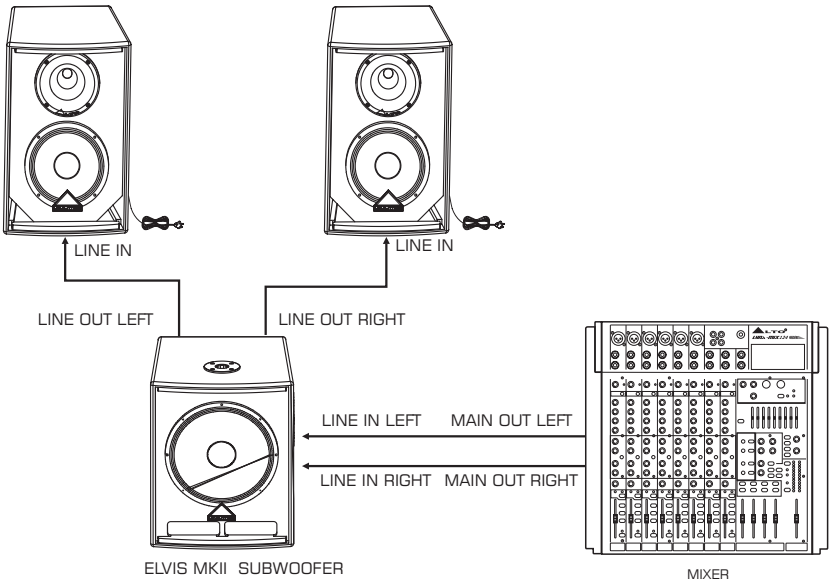
2). Connect the power cord to mains.

3). Turn on your mixer first, then the active speaker cabinets.

4). Turn up the volume control of the active speaker cabinets.

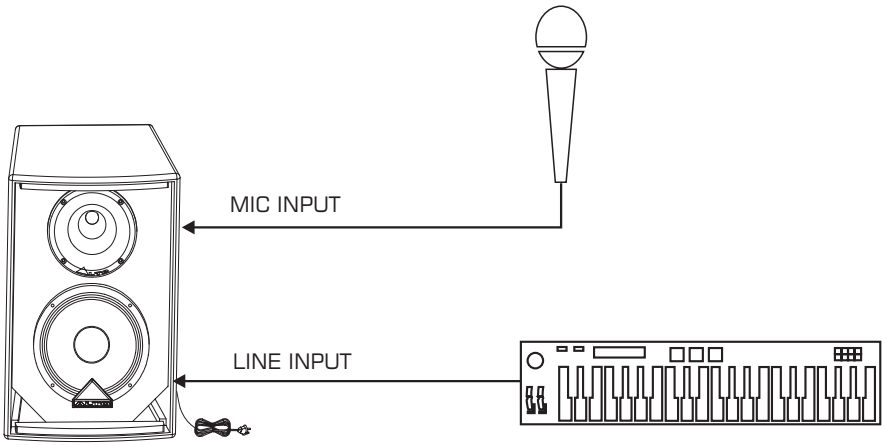
5). Use PFL function to get the proper input level for the mixer, and adjust the Main Mix Level control to manipulate the output level.

6). After use, turn off your active speaker cabinets first, then the mixer.



2. QUICK START - ACTIVE SPEAKER CABINETS

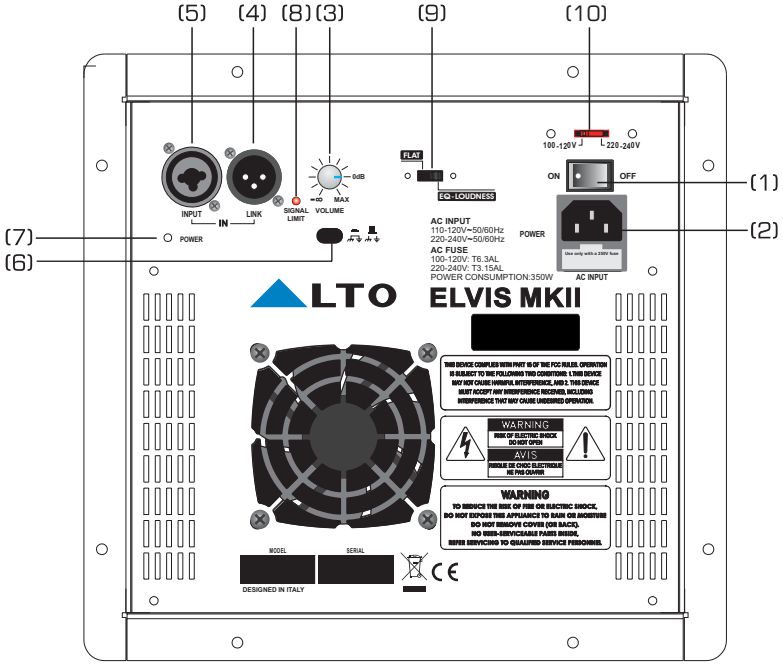
Active, with Microphone and Line Level instruments.
and a keyboard or an electric guitar (you must interconnect a D/I Box if you This configuration is good for presentation, meetings, aerobic centers and or for "One Man band" performances.) You can then use the resident 3-bands graphic equalizer to fine-tune your sound. want to use the guitar) and use the relative level controls as a simple mixer. Your Elvis MKII cabinets come with both Line-level and with Microphone Inputs. You can directly connect a microphone into your Elvis MKII cabinet using the MIC input fashion shows (you can also connect a wireless microphone into the Line input,



3. CONNECTIONS

ACTIVE FULL- RANGE :

ELVIS 12A MKII / ELVIS 12MA MKII / ELVIS 15A MKII



(1) ON-OFF main power switch.

(2) Input AC power socket with main fuse.

(3) VOLUME main power amplifier control.

(4) LINE OUT at + 4dB on XLR connector.

(5) LINE IN at + 4dB on COMBO connector.

(6) Ground Lift Switch.

(7) POWER, Green LED, indicate ON status.

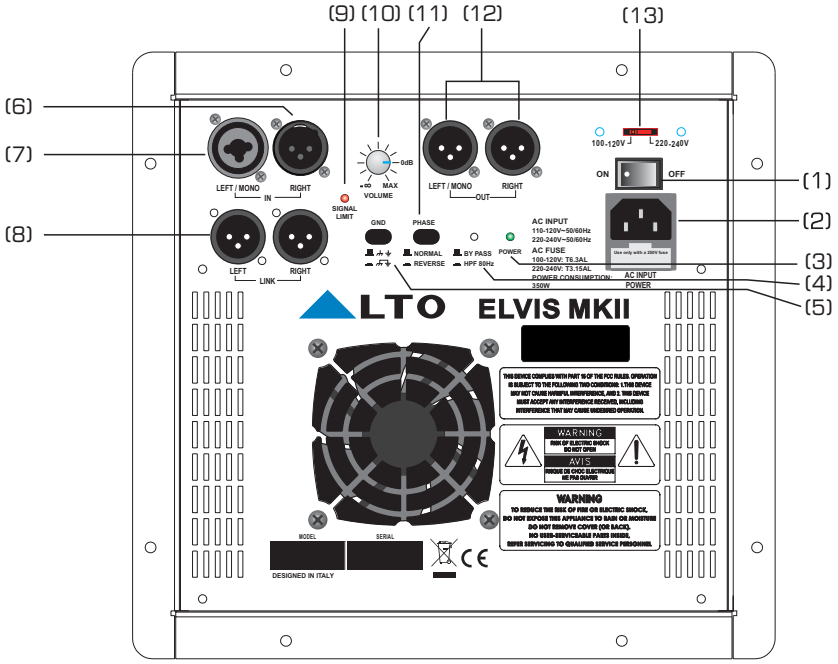
(8) SIGNAL/LIMIT, Red LED, indicate ON status.

(9) FLAT/LOUDNESS Switch.

(10) POWER SWITCHUNG BUTTOM

3. CONNECTIONS

ACTIVE SUBWOOFERS: ELVIS 15SA MKII



(1) ON-OFF main power switch

(2) Input AC power socket with main fuse

(3) POWER, Green LED, indicate ON status

(4) BYPASS Switch Select the Hiqh pass filter or by pass

(5) Ground Lift Switch

(6) LINE IN RIGHT.ON XLR CONNECTOR

(7) LINE IN LEFT/MONO ON COMBO CONNECTOR

(8) LINK LEFT/RIGHT ON XLR CONNECTOR

(9) SIGNAL/LIMIT, Red LED, indicate ON status

(10) VOLUME main power amplifier control

(11) PHASE Switch Reverse the Polarity of the subwoofer output

(12) OUT LEFT/RIGHT ON 2xXLR CONNECTOR

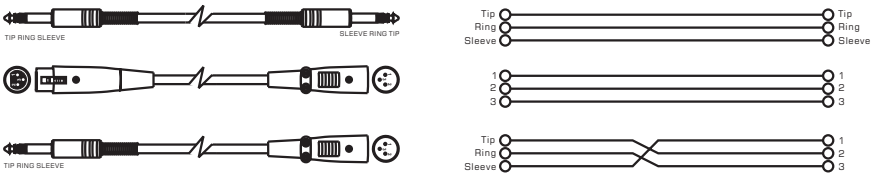
(13) POWER SWITCHUNG BUTTOM

4. WIRE CONNECTIONS

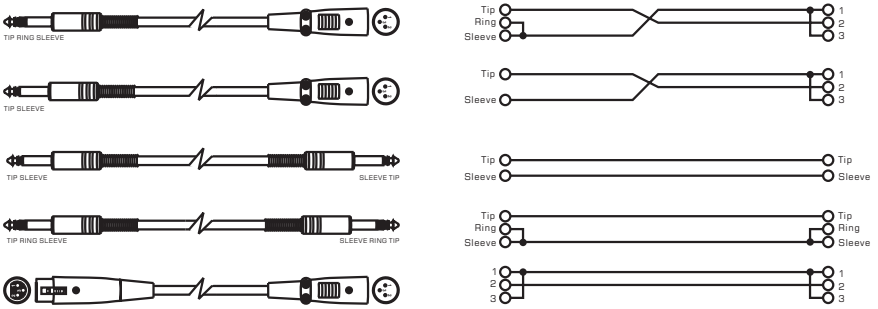
-. For Active Speaker Cabinets

As to these circumstances, audio connections is mostly intended for the signal flow, so, determine the wire configuration according to your real application system and its connecting facility. Normally, you have the following choices:

Balanced

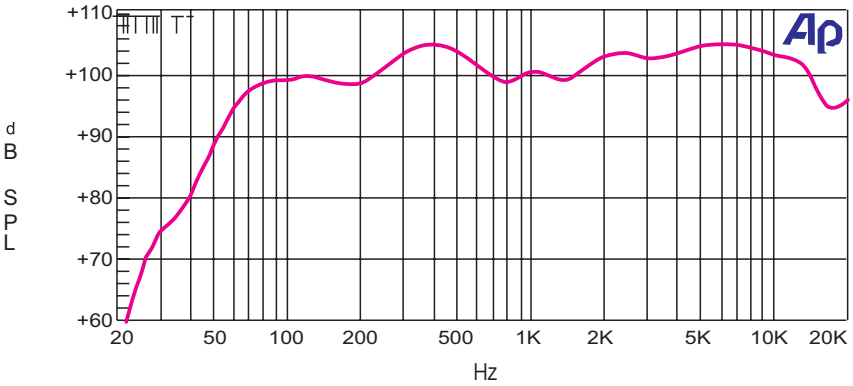


Unbalanced

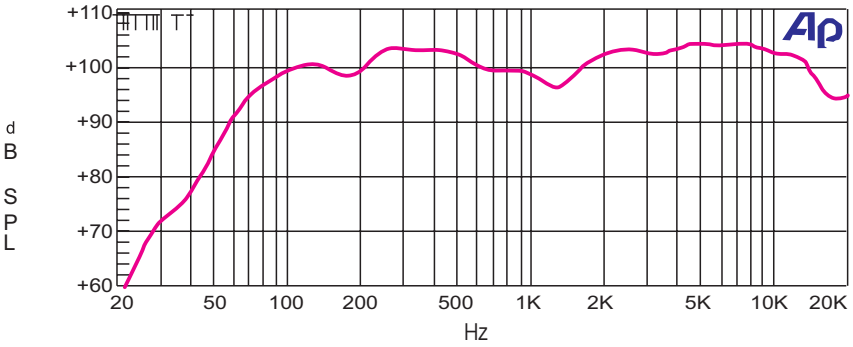


5. FREQUENCY RESPONSE

Audio Precision ELVIS 12A MKII 11/10/08 09:49:25



Audio Precision ELVIS 12MA MKII 11/10/08 10:37:43



5. FREQUENCY RESPONSE

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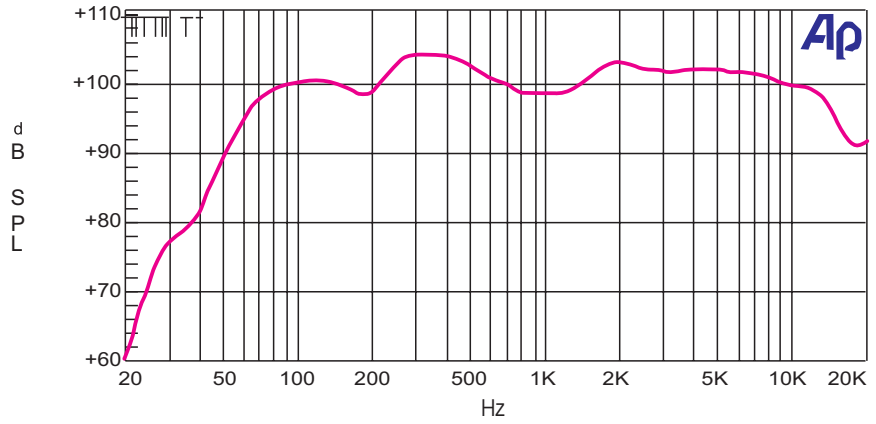
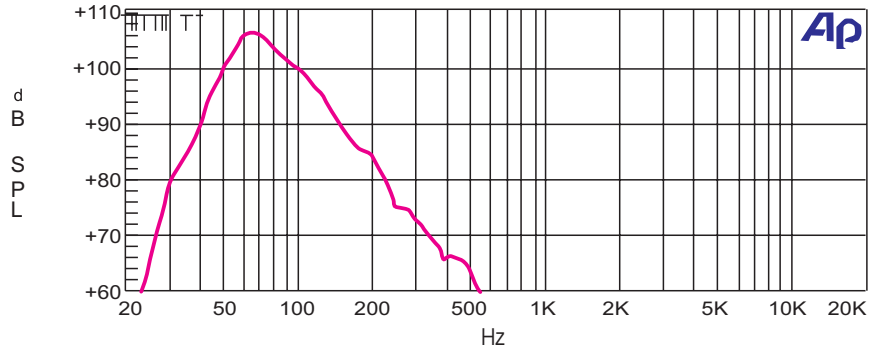


Audio Precision ELVIS 15SA MKII 11/10/08 13:35:44



6. TECHNICAL SPECIFICATION

ELVIS 12A MKII	2-Way 12" Active Speaker Cabinets
Power System	300W Bi-Amp (235W-LOW/ 65W-HIGH) in EIAJ Standard
Frequency Response (-10dB)	57Hz-18kHz, FLAT/ 47Hz-20kHz, EQ.LOUDNESS
Maximum SPL @ 1m	121dB Continuous/ 124dB Peak (Calculated)
Coverage (HxV)	70°x 70°nominal
Transducer Low	12" Woofer, 2"voice coil, with double ventilation
Transducer High	1" Neodymium on Spherical Horn (Tractrix contour)
Active Crossover	2kHz under analog processor, FLAT or EQ. LOUDNESS
Input Connector	LINE-COMBO/ LINK-XLR-M Balanced (15kohm)
Input Level	Line 0dBu
External Control	Volume Control/ Flat-Eq.Loudness/ Power ON with Green LED/ Clip Limiter with Red LED/ Ground Lift
Power Supply	120-240 Volt - Switching Power Mode
Enclosure Construction	Chipboard cabinet, glued and reinforced, covered in black carpet; black metal corner and rubber foot.
Mounting	One standard pole-mount plus one plastic handle
Dimensions (HxWxD)	603 x 394 x 355 mm (23.74" x 15.51" x 13.98")
Net Weight	19.71 kg / 43.45lbs
Shipping Weight	23.01 kg / 50.73lbs

ELVIS 12MA MKII	2-Way 12" Active Monitor Speaker Cabinets
Power System	300W Bi-Amp (235W-LOW/ 65W-HIGH) in EIAJ Standard
Frequency Response (-10dB)	64Hz-18kHz, FLAT/ 60Hz-20kHz,EQ.LOUDNESS
Maximum SPL @ 1m	121dB Continuous/124dB Peak (Calculated)
Coverage (HxV)	70°x 70°nominal
Transducer Low	12" Woofer, 2"voice coil,with double ventilation
Transducer High	1" Neodymium on Spherical Horn (Tractrix contour)
Transducer High	1in. Neodymium on Spherical Horn (Tractrix contour)
Active Crossover	2kHz under analog processor, FLAT or EQ. LOUDNESS
Input Connector	LINE-COMBO/ LINK-XLR-M Balanced (15kohm)
Input Level	Line 0dBu
External Control	Volume Control/ Flat-Eq.Loudness/ Power ON with Green LED/ Clip Limiter with Red LED/ Ground Lift.
Power Supply	120-240 Volt - Switching Power Mode
Enclosure Construction	Chipboard cabinet, glued and reinforced, covered in black carpet; black metal corner and rubber foot.
Mounting	One standard pole-mount plus one plastic handle
Dimensions (HxWxD)	603 x 394 x 380 mm (23.74" x 15.51" x 14.96")
Net Weight	18.48kg / 40.74 lbs
Shipping Weight	21.90kg / 48.28 lbs

6. TECHNICAL SPECIFICATION

ELVIS 15A MKII	2-Way 15" Active Speaker Cabinets
Power System	400W Bi-Amp (335W-LOW/ 65W-HIGH) in EIAJ Standard
Frequency Response (-10dB)	54Hz-18kHz, FLAT/ 47Hz-20kHz, EQ. LOUDNESS
Maximum SPL @ 1m	122dB Continuous/125dB Peak (Calculated)
Coverage (HxV)	70°x 70°nominal
Transducer Low	15" Woofer, 2.5" voice coil, with double ventilation
Transducer High	1" Neodymium on Spherical Horn (Tractrix contour)
Active Crossover	2kHz under analog processor, FLAT or EQ. LOUDNESS
Input Connector	LINE-COMBO/ LINK-XLR-M Balanced (15kohm)
Input Level	Line 0dBu
External Control	Volume Control/ Flat-Eq.Loudness/ Power ON with Green LED/ Clip Limiter with Red LED/ Ground Lift.
Power Supply	120-240 Volt - Switching Power Mode
Enclosure Construction	Chipboard cabinet, glued and reinforced, covered in black carpet; black metal corner and rubber foot
Mounting	One standard pole-mount plus two plastic handle
Dimensions (HxWxD)	670 x 438 x 375 mm (26.38" x 17.24" x 14.76")
Net Weight	21.48kg / 47.36 lbs
Shipping Weight	25.69kg / 56.64 lbs

ELVIS 15SA MKII	15" Active Subwoofer Speaker Cabinets
Power System	350W in EIAJ Standard
Frequency Response (-10dB)	42Hz-125Hz
Maximum SPL @ 1m	121dB Continuous/124dB Peak (Calculated)
Transducer Low	15" Woofer, 2.5"voice coil, with double ventilation
Active Crossover	HPF 80Hz under analog processor
Input Connector	L-R Input (Combo/ XLR-F) / L-R Link (2-XLR-M) / L-R Output (2-XLR-M) Balanced (15kohm)
Input Level	L-R Input Line 0dBu
External Control	Volume Control/ Phase Switch / HPF-80Hz By-Pass/ Power ON with Green LED/ Clip Limiter with Red LED/ Ground Lift.
Power Supply	120-240 Volt, in Switching Power mode.
Enclosure Construction	Chipboard cabinet, glued and reinforced, covered in black carpet; black metal corner and rubber foot
Mounting	One metal standard pole-mount plus two plastic handle
Dimensions (HxWxD)	558 x 438 x 506.7 mm (21.97" x 17.24" x 19.95")
Net Weight	26.96kg / 59.44 lbs
Shipping Weight	31.69kg / 69.86 lbs

7. WARRANTY

1. WARRANTY REGISTRATION CARD

To obtain Warranty Service, the buyer should first fill out and return the enclosed Warranty Registration Card within 10 days of the Purchase Date.

All the information presented in this Warranty Registration Card gives the manufacturer a better understanding of the sales status, so as to provide a more effective and efficient after-sales warranty service. Please fill out all the information carefully and genuinely, miswriting or absence of this card will void your warranty service.

2. RETURN NOTICE

2.1 In case of return for any warranty service, please make sure that the product is well packed in its original shipping carton, and it can protect your unit from any other extra damage.

2.2 Please provide a copy of your sales receipt or other proof of purchase with the returned machine, and give detail information about your return address and contact telephone number.

2.3 A brief description of the defect will be appreciated.

2.4 Please prepay all the costs involved in the return shipping, handling and insurance.

3. TERMS AND CONDITIONS

3.1 ▲LTO warrants that this product will be free from any defects in materials and/or workmanship for a period of 1 year from the purchase date if you have completed the Warranty Registration Card in time.

3.2 The warranty service is only available to the original consumer, who purchased this product directly from the retail dealer, and it can not be transferred.

3.3 During the warranty service, ▲LTO may repair or replace this product at its own option at no charge to you for parts or for labor in accordance with the right side of this limited warranty.

3.4 This warranty does not apply to the damages to this product that occurred as the following conditions:

- Instead of operating in accordance with the user's manual thoroughly, any abuse or misuse of this product.
- Normal tear and wear.
- The product has been altered or modified in any way.
- Damage which may have been caused either directly or indirectly by another product / force / etc.
- Abnormal service or repairing by anyone other than the qualified personnel or technician.

And in such cases, all the expenses will be charged to the buyer.

3.5 In no event shall ▲LTO be liable for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

3.6 This warranty gives you the specific rights, and these rights are compatible with the state laws, you may also have other statutory rights that may vary from state to state.

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NF03268-1.0